CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/DM/17/2021-22

Date: 29.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency	: Sri. Damodar Manjunath (K Damodar and Co), Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2021	29.07.2021	8.137	475.6	21.14
2	01.07.2021	29.07.2021	8.121	487.9	21.68
3	01.07.2021	29.07.2021	8.113	498.5	22.16

Note:

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No.: CQCE/BBMP/DM/17/2021-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 30.07.2021

Client	: Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency	: Sri. Damodar Manjunath (K Damodar and Co), Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.07.2021	30.07.2021	8.089	488.4	21.71
2	02.07.2021	30.07.2021	8.096	506.8	22.52
3	02.07.2021	30.07.2021	8.105	496.7	22.08

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Job No.: CQCE/BBMP/DM/17/2021-22

Date: 30.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	: **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.07.2021	30.07.2021	8.190	505.7	22.48
2	02.07.2021	30.07.2021	8.181	518.4	23.04
3	02.07.2021	30.07.2021	8.164	526.9	23.42

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ISO 9001:2008 CERTIFIED

Job No: CQCE/BBMP/DM/17/2021-22

Date: 31.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	: **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.07.2021	31.07.2021	8.092	494.4	21.97
2	03.07.2021	31.07.2021	8.115	478.9	21.28
3	03.07.2021	31.07.2021	8.136	509.2	22.63

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Job No.: CQCE/BBMP/DM/17/2021-22

Date: 31.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	: **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.07.2021	31.07.2021	8.061	510.3	22.68
2	03.07.2021	31.07.2021	8.017	501.7	22.30
3	03.07.2021	31.07.2021	8.029	524.6	23.32

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Ref No.: CQCE/BBMP/DM/17/2021-22

Date: 19.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency	: Sri. Damodar Manjunath (K Damodar and Co), Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	19.07.2021	8.162	338.5	15.04
2	12.07.2021	19.07.2021	8.179	349.2	15.52
3	12.07.2021	19.07.2021	8.142	363.7	16.16

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	19.07.2021	8.154	370.2	16.45
2	12.07.2021	19.07.2021	8.187	341.6	15.18
3	12.07.2021	19.07.2021	8.171	358.5	15.93

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Ref No: CQCE/BBMP/DM/17/2021-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 20.07.2021

Client	: Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency	: Sri. Damodar Manjunath (K Damodar and Co), Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.07.2021	20.07.2021	8.041	373.2	16.59
2	13.07.2021	20.07.2021	8.037	380.4	16.91
3	13.07.2021	20.07.2021	8.029	396.1	17.60

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Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.07.2021	20.07.2021	8.106	340.5	15.13
2	13.07.2021	20.07.2021	8.119	356.7	15.85
3	13.07.2021	20.07.2021	8.127	364.2	16.19

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Lab No.: CQCE/BBMP/DM/17/2021-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 21.07.2021

Client	: Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency	: Sri. Damodar Manjunath (K Damodar and Co), Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.07.2021	21.07.2021	8.109	352.7	15.68
2	14.07.2021	21.07.2021	8.122	370.4	16.46
3	14.07.2021	21.07.2021	8.145	389.5	17.31

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Job No.: CQCE/BBMP/DM/17/2021-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 21.07.2021

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	: **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.07.2021	21.07.2021	8.180	380.5	16.91
2	14.07.2021	21.07.2021	8.171	399.4	17.75
3	14.07.2021	21.07.2021	8.162	368.9	16.40

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ISO 9001:2000 CERTIFIED

Lab No.: CQCE/BBMP/DM/17/2021-22

Date: 22.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency	: Sri. Damodar Manjunath (K Damodar and Co), Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.07.2021	22.07.2021	8.103	344.7	15.32
2	15.07.2021	22.07.2021	8.085	359.5	15.98
3	15.07.2021	22.07.2021	8.094	371.9	16.53

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Ref No.: CQCE/BBMP/DM/17/2021-22

Date: 22.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	: **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.07.2021	22.07.2021	8.071	383.4	17.04
2	15.07.2021	22.07.2021	8.052	354.6	15.76
3	15.07.2021	22.07.2021	8.064	366.9	16.31

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Ref No.: CQCE/BBMP/DM/17/2021-22

Date: 23.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	: **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.07.2021	23.07.2021	8.011	355.5	15.80
2	16.07.2021	23.07.2021	8.027	370.4	16.46
3	16.07.2021	23.07.2021	8.039	389.5	17.31

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Ref No.: CQCE/BBMP/DM/17/2021-22

Date: 23.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	: **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Name of the work	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.07.2021	23.07.2021	8.107	372.8	16.57
2	16.07.2021	23.07.2021	8.132	396.5	17.62
3	16.07.2021	23.07.2021	8.156	354.1	15.74

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Job No.: CQCE/BBMP/DM/17/2021-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 24.07.2021

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.

Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.

Name of the work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.07.2021	24.07.2021	8.125	363.3	16.15
2	17.07.2021	24.07.2021	8.148	345.8	15.37
3	17.07.2021	24.07.2021	8.187	357.9	15.91

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Job No.: CQCE/BBMP/DM/17/2021-22

Date: 26.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	
Agency	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Name of the work	: **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Sample ID	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
Size of cubes	: Cement Concrete
Cross Sectional Area	: 150mmx150mmx150mm
Technical Reference	: 22500 mm^2
Grade of Concrete	: IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on	: M_{20}
	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.07.2021	26.07.2021	8.058	341.2	15.16
2	19.07.2021	26.07.2021	8.081	353.8	15.72
3	19.07.2021	26.07.2021	8.099	367.4	16.33

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Job No.: CQCE/BBMP/DM/17/2021-22

Date : 09.06.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.

Agency : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.

Name of the Work : Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.

Date of Testing : 09.06.2021

Size of Blocks : 400mm x 100mm x 200mm

Cross Sectional Area : 40000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	16.3	162.5	4.06	2037.50	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	15.8	166.8	4.17	1975.00	
3	Block 3	14.7	171.4	4.29	1837.50	
4	Block 4	16.6	174.8	4.37	2075.00	

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Job No.: CQCE/BBMP/DM/17/2021-22

Date : 09.06.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client Agency : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.

Name of the Work : **Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.

Date of Testing : 09.06.2021

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.3	245.6	4.09	2025.00	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	25.6	248.5	4.14	2133.33	
3	Block 3	22.9	251.3	4.19	1908.33	
4	Block 4	23.5	254.7	4.25	1958.33	

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Job No.: CQCE/BBMP/DM/17/2021-22 Date: 25.07.2021

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.

Agency : Sri. Damodar Manjunath (K Damodar and Co), Contractor, Bangalore.

Name of Work : Construction of Individual Houses in Ward No 16 And 37 RR Nagar Constituency, BBMP, Bangalore.

Reference to BIS codes : IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification

IS 3495 (Part 1 to 3) : 1992(RA 2011)
Method of Tests Burnt Clay Building Bricks
Part 1:Determination of Compressive Strength, (Cl 4.2.3)
Part 2:Determination of Water Absorption,(Cl 4.1.3)
Part 3: Determination of Efflorescence, (Cl 4)

Date of test : 20.07.2021 to 25.07.2021

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm2)	Acceptability as per IS 1077:1992, Clause 7.1
1	5.3	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	5.2	
3	5.6	
4	5.1	
5	5.5	
Average of 5 bricks	5.3	

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	10.2	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	10.6	
3	10.1	
4	10.4	
5	10.3	
Average of 5 bricks	10.3	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4620	4520 to 4680 mm
2	Width	2195	2160 to 2240 mm
3	Height	1385	1360 to 1440 mm

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Job No.: CQCE/BBMP/DM/17/2021-22

27.07.2021

TEST REPORT ON PVC PIPE

Client Agency	**: Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Name of Work	**: Sri. Damodar Manjunath (K Damodar and Co),** Contractor, Bangalore.
Sample Supplied by	: Construction of Individual Houses in Ward No 17 RR Nagar Constituency, BBMP, Bangalore.
BIS Code	: AGENCY
Sample Identification	IS 4985:2000
Date of Testing	PVC pipe 20mm dia
	27.07.2021

Sl.No	Test	Test Result	Requirements as per IS 4985:2000
1	Nominal Outer Diameter (mm)	20mm	20 mm
2	Mean Outside Diameter (mm)	20.2mm	Min 20 mm Max 20.3 mm
3	Outside Diameter at Any Point (mm)	19.9 mm	Min 19.5 mm Max 20.5 mm

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